

Claim listing

This claim listing supercedes all prior versions of the claims in this application.

1. (Currently amended) A balloon catheter comprising an inflatable balloon ~~consisting essentially of at least one metal~~ comprised of a catheter member, at least one balloon, and an inflation lumen intermediate the catheter member and the at least one balloon, and the at least one balloon comprising a inner surface, an outer surface, and a wall thickness therebetween, wherein the wall thickness consists of at least one metal.

2. (Currently amended) The catheter according to Claim 1, wherein the at least one metal is selected from the group consisting of titanium, vanadium, aluminum, nickel, tantalum, zirconium, chromium, silver, gold, silicon, magnesium, niobium, scandium, platinum, cobalt, palladium, manganese, molybdenum and alloys ~~thereof~~ of titanium, vanadium, aluminum, nickel, tantalum, zirconium, chromium, silver, gold, silicon, magnesium, niobium, scandium, platinum, cobalt, palladium, manganese and molybdenum.

3. (Currently amended) The catheter according to Claim 1, wherein the inflatable balloon has a wall thickness between about ~~[[3]]0.1~~μm and [[10]]25μm.

4. (Original) The catheter according to claim 1, wherein the inflatable balloon deflates under the influence of at least one of a shape memory, superelastic or elastic property of the at least one metal.

5. (Original) The catheter according to Claim 1, further comprising a catheter body fabricated from a material selected from the group consisting of polymers and metals.

6. (Previously Presented) The catheter according to Claim 1 made by the method comprising the steps of:

vacuum depositing a film of the at least one metal onto the generally cylindrical mandrel having a geometry desired for the inflatable balloon to form the inflatable balloon; and removing the generally cylindrical mandrel from the formed inflatable balloon.

7. (Previously Presented) The catheter of claim 1, further comprising a catheter body member having an inflation lumen and at least one inflation port, wherein the at least one inflation port is in fluid flow communication with an inflation lumen of the inflatable balloon.

Claims 8-12: Cancelled.

13. (Original) The catheter of claim 1, wherein the at least one metal is comprised of a radiopaque metal.

Claim 14: Cancelled.

15. (Original) The catheter of claim 1, wherein the inflatable balloon has conductive properties for transmitting energy delivered from an external source.

Claims 16-25: Cancelled.

26. (New) The catheter of claim 1 wherein the at least one metal comprises a single layer of a single metal, multiple layers of a single layer, or a multiple layers of multiple metals.

27. (New) A balloon catheter comprising an inflatable balloon consisting essentially of at least one vacuum deposited metal.

28. (New) A balloon catheter comprising an inflatable balloon consisting essentially of at least one shape memory metal